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ACTIVE MATRIX TYPE SEMICONDUCTOR DISPLAY DEVICE

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to an active matrix type semiconductor display device, and particularly to an active matrix type liquid crystal display device.

2. Description of the Related Art

In recent years, as an FPD (Flat Panel Display), an active matrix type semiconductor display device enlivens the market. Above all, an active matrix type liquid crystal display device has been frequently used as a display device of a personal computer. Further, in addition to a use for a note-sized personal computer, the active matrix type liquid crystal display device with a large screen comes to be used for a desktop personal computer.

For the active matrix type liquid crystal display device used for a personal computer, in addition to a request for a large screen, it is required that plural pieces of information can be displayed at the same time. Then, the active matrix type liquid crystal display device which has a large screen, high fineness, and high picture quality, and enables a full color display, has been required.

Among active matrix type liquid crystal display devices, a TN (twisted nematic) liquid crystal display device using a nematic liquid crystal appears most frequently on the market. Fig. 20 is a schematic structural view showing a conventional active matrix type TN liquid crystal display device. In Fig. 20, reference numeral 3001 designates a source signal line driver circuit; 3002, a gate signal line driver circuit; and 3003, an active matrix circuit. The active matrix circuit 3003 is a circuit in which a plurality of pixel TFTs 3004 are arranged in matrix form. A gate signal line and a source signal line are connected to a gate electrode and a source electrode of each of the pixel TFTs 3004, respectively. A pixel electrode is